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FIG. 1

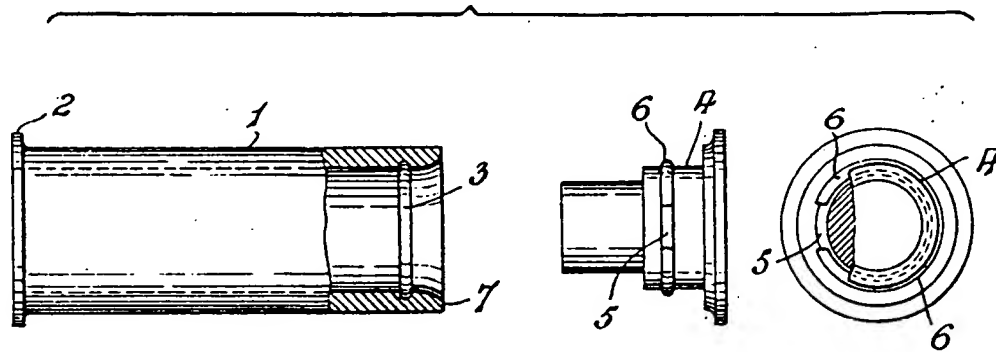
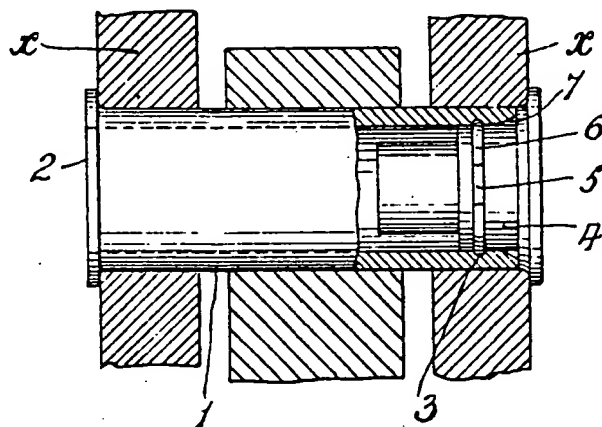


FIG. 2



[This Drawing is a reproduction of the Original on a reduced scale.]



## PATENT SPECIFICATION

Application Date: May 9, 1921.

No. 13,097/21.

185,791

Complete Left: Feb. 3, 1922.

Complete Accepted: Sept. 11, 1922.

### PROVISIONAL SPECIFICATION.

#### Improvements in or relating to Pins for Connecting the Clip Members of Stenter Clips.

I, GEORGE GILLIBRAND, of The Bungalow, Within's Lane, Breightmet, Bolton, in the County of Lancaster, a subject of the King of Great Britain, do hereby declare the nature of this invention to be as follows:—

The invention relates to improvements in or relating to pins more especially intended for connecting the clip members of stenter clips.

Pins of this character are usually employed to connect adjacent clip members together so as to form the chain and the object of the present invention is to provide means for preventing said pins from working out.

For this purpose the pin is formed hollow and with a flange at one end and at the other end is provided with an internal circumferential groove and in conjunction therewith is employed a flanged plug adapted to fit the interior of the pin whilst the periphery of the

plug is exteriorly grooved and in said groove is arranged a split ring.

In operation the plug is forced into the pin when the ring of the plug snaps into the internal groove of the pin by which means the flanged plug is held securely in position.

It will be understood that the device hereinbefore described may be employed in other situations than to connect the clip members of stenter clips in which case, if desired, both the flange and the flanged plug may be dispensed with and the pin may be exteriorly and circumferentially grooved at or near each end thereof and in order to fix the pin in position split rings may be snapped into each of said grooves thus forming flanges and effectually preventing the pin from working out.

Dated this 7th day of May, 1921.

For the Applicant,  
BARLOW, GILLET & WHITE,  
Chartered Patent Agents.

### COMPLETE SPECIFICATION.

#### Improvements in or relating to Pins for Connecting the Clip Members of Stenter Clips.

I, GEORGE GILLIBRAND, late of The Bungalow, Within's Lane, Breightmet, Bolton, but at present of 16, Clifton Street, Blackpool, in the County of Lancaster, a subject of the King of Great Britain, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by

[Price 1/-]

the following statement, reference being had to the drawings hereunto annexed and to the figures and reference numerals marked thereon that is to say:—

The invention relates to improvements in or relating to pins for connecting the clip members of stenter clips.

Pins employed to connect adjacent clip members of stenter clips together have

heretofore been provided with a peripheral groove and in the meeting ends of the links was provided a recess having internally a coinciding peripheral groove in which was sprung a split ring. In order to fix the pin in position it was pressed into the recess until the split ring of the latter snapped into the groove of the pin.

10 Now the object of the present invention is to provide means of the type above referred to for joining the links of stenter clips having an improved construction.

For this purpose the pin which passes entirely through the meeting ends of the links is furnished with a flange at one end and at the other end is provided with a recess having an internal circumferential groove.

20 In order to fix the pin in position a flanged plug is employed having a peripheral groove therein in which is sprung a split ring. The plug is inserted in the recess until the spring thereof snaps into the circumferential groove of the recess when the plug will be firmly fixed in position and the flanges will prevent the pin working out.

In the accompanying drawings—

30 Figure 1 represents a sectional elevation and end view of a pin constructed according to the present invention and

Figure 2 is a sectional elevation illustrating the pin in position.

35 Referring to Figures 1 and 2—1 represents the body of the pin which is formed with a flange 2 at one end and at the other end is furnished with an internal circumferential groove 3 and in conjunction therewith is employed a flanged plug 4 adapted to fit the interior of the pin 1 whilst the periphery of the plug 4 is

exteriorly grooved at 5 and in said groove 5 is sprung a split ring 6.

In operation the pin 1 is passed through the stenter clip *x* and the plug 4 is then forced into the pin 1 the latter being chamfered or flared at 7, as shown, when the ring 6 of the plug 4 snaps into the internal groove 3 of the pin 1, by which means the plug 4 is held securely in position as shown in Figure 2.

Further, the pin may be formed hollow and each end thereof fitted with a flanged plug constructed and operating as described with respect to Figure 1.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. In a pin for connecting the clip members of stenter clips, a flange at one end, a recess at the other end, an internal circumferential groove in said recess, a flanged plug, a circumferential groove in said plug and a split ring sprung into said groove in such manner that when the plug is inserted in the recess in the pin said split ring will snap into the groove of said recess and firmly fix the flanged plug in position substantially as herein set forth.

2. The improved pin for connecting the members of stenter clips constructed, arranged and operating substantially as herein described and illustrated in the accompanying drawings.

Dated this 2nd day of February, 1922.

For the Applicant,  
BARLOW, GILLETT & WHITE,  
Chartered Patent Agents.  
17, St. Ann's Square, Manchester.